

# Declaration and Power of Attorney For Patent Application

## English Language Declaration

As a below named inventor, I hereby declare that:

**COPY**

My residence, post office address and citizenship are as stated below next to my name,

I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled

AN OPTICAL DISK, AN OPTICAL DISK BARCODE FORMING METHOD, AN OPTICAL DISK REPRODUCTION APPARATUS, A MARKING FORMING APPARATUS, A METHOD OF FORMING A LASER MARKING ON AN OPTICAL DISK, AND A METHOD OF MANUFACTURING AN OPTICAL DISK  
the specification of which \_\_\_\_\_,

(check one)

☐ is attached hereto.

☒ was filed on May 16, 1996 as  
Application Serial No. 08/649,411  
and was amended on May 16, 1996 by Preliminary Amendment  
(if applicable)

I hereby state that I have reviewed and understand the contents of the above identified specification, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose information which is material to the examination of this application in accordance with Title 37, Code of Federal Regulations, §1.56.

I hereby claim foreign priority benefits under Title 35, United States Code, §119 of any foreign application(s) for patent or inventor's certificate listed below and have also identified below any foreign application for patent or inventor's certificate having a filing date before that of the application on which priority is claimed:

Prior Foreign Application(s)			Priority Claimed
Pat. Appln. Hei 7-261,247	Japan	09, October, 1995	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
(Number)	(Country)	(Day/Month/Year Filed)	
Pat. Appln. Hei 8-008,910	Japan	23, January, 1996	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
(Number)	(Country)	(Day/Month/Year Filed)	
(Number)	(Country)	(Day/Month/Year Filed)	<input type="checkbox"/> Yes <input type="checkbox"/> No

I hereby claim the benefit under Title 35, United States Code, §120 of any United States application(s) listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States application in the manner provided by the first paragraph of Title 35, United States Code, §112, I acknowledge the duty to disclose material information as defined in Title 37, Code of Federal Regulations, §1.56 which occurred between the filing date of the prior application and the national or PCT international filing date of this application:

0 /	(Application Serial No.)	(Filing Date)	(Status) (patented, pending, abandoned)
0 /	(Application Serial No.)	(Filing Date)	(Status) (patented, pending, abandoned)

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

POWER OF ATTORNEY: As a named inventor, I hereby appoint the following attorney(s) and/or agent(s) to prosecute this application and transact all business in the Patent and Trademark Office connected therewith. (*list name and registration number*)

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Full name of sixth joint inventor, if any	
Sixth Inventor's signature	Date
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Citizenship	
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MTS-710

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: Y. Goto et al. : Art Unit:  
Serial No.: To Be Assigned : Examiner:  
Filed: Herewith :  
FOR: AN OPTICAL DISK, AN OPTICAL :  
DISK BARCODE FORMING METHOD, AN :  
OPTICAL DISK REPRODUCTION  
APPARATUS, A MARKING FORMING  
APPARATUS, A METHOD OF FORMING  
A LASER MARKING ON AN OPTICAL  
DISK, AND A METHOD OF  
MANUFACTURING AN OPTICAL DISK

COPY

PRELIMINARY AMENDMENT

Assistant Commissioner for Patents  
Washington, D.C. 20231  
S I R :

Prior to examination, please amend the above-identified application as follows.

IN THE DRAWINGS:

Please approve the corrections to the drawings submitted in the enclosed red inked sketch under cover of a letter to the official draftsman. Fig. 3 has been amended to correct a typographical error. Figs. 6, 7 and 30 have been amended to substitute English language labels for Japanese language labels.

IN THE SPECIFICATION:

On page 3, lines 20-21, delete "being used when encrypting prescribed data for transmission" and insert therefor --is used to encrypt prescribed data, and the encrypted prescribed data is transmitted--.

On page 5, line 7, delete "main data".

On page 5, line 10, after "area" insert --other--.

On page 5, line 10, delete "main data".

On page 5, line 14, delete "main data".

On page 5, second line from the bottom, delete "said" and insert therefor --a--.

On page 6, line 13, after "barcode," insert --said different recording area is also such area to which contents are recorded with pits,--.

On page 6, line 16, after "pits" insert --which are formed in said different recording area--.

On page 11, sixth line from the bottom, after "CLV," insert --and--.

On page 11, sixth line from the bottom, delete "being" and insert therefor --is--.

On page 17, line 9, delete "dada" and insert therefor --data--.

On page 79, bottom line, delete "49(a)" and insert therefor --14(a)--.

On page 80, line 3, delete "49(a)" and insert therefor --14(a)--.

On page 80, line 5, delete "49(b)" and insert therefor --14(b)--.

On page 80, line 9, delete "49(c) and 49(d)" and insert therefor --14(c) and 14(d)--.

On page 80, line 18, delete "49(c) and 49(d)" and insert therefor --14(c) and 14(d)--.

On page 81, line 17, delete "49(c) and 49(d)" and insert therefor --14(c) and 14(d)--.

On page 81, line 18, after "0s" insert --, as shown in Figure 14(b)--.

#### IN THE CLAIMS:

Please amend claims 6, 14, 17, 20 and 33 as follows:

1           6. (Amended) An optical disk according to claim 5, wherein  
2 said barcode contains data including, in addition to said ID information, a  
3 public key of a public key encryption function corresponding to said ID  
4 information, said public key [being] is used [when encrypting] to encrypt  
5 prescribed data, and the encrypted prescribed data is transmitted [for  
6 transmission] to an external party in order to obtain from said external party  
7 a password required to reproduce said optical disk.

1           14. (Amended) An optical disk reproduction apparatus  
2 wherein recorded contents of a [main data] recording area, recorded by  
3 forming pits on an optical disk, are reproduced by using a rotational phase  
4 control for a motor, while recorded contents of a different recording area  
5 other than said [main data] recording area, recorded by selectively forming

6 low-reflectivity portions on a reflective film in said different recording area,  
7 are reproduced by using rotational speed control for said motor, and  
8 the recorded contents of said [main data] recording area and the  
9 recorded contents of said different recording area are both reproduced by  
10 using the same optical pickup.

1 17. (Amended) An optical disk reproduction apparatus  
2 according to claim 16, wherein said rotational speed is [the] a rotational  
3 speed that would be achieved in said different recording area if said rotational  
4 phase control were applied.

1 20. (Amended) An optical disk reproduction apparatus  
2 according to claim 14, wherein  
3 said low-reflectivity portions are a barcode, said different  
4 recording area is also such area to which contents are recorded with pits, and  
5 when reproducing the recorded contents of said different  
6 recording area, a high-frequency-component signal generated during  
7 reproduction of said pits which are formed in said different recording area is  
8 reduced or eliminated by a low-pass filter, thereby making it possible to  
9 separate a signal which is reproduced from said barcode.

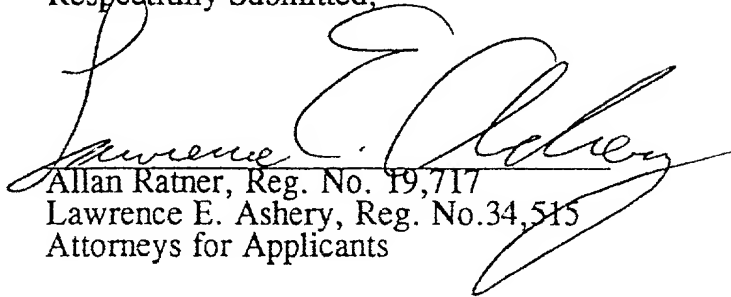
1 33. (Amended) A method of manufacturing a disk, comprising  
2 the steps of:

3 forming at least one disk;  
4 forming a reflective film to said formed disk;  
5 applying at least one marking to said reflective film;  
6 detecting at least one position of said marking; and  
7 encrypting said detected position information and writing said  
8 encrypted information onto said disk,

9 wherein, when encrypting and writing, at least said encrypted  
10 information is converted into a barcode, and said barcode is written by

- 11 eselectively removing said reflective film on said disk on which data is  
12 recorded with CLV, and  
13 all or part of said barcode [being] is written in overwriting  
14 fashion to a prescribed region of a pre-pit signal area on said disk.

Respectfully Submitted,

  
Allan Ratner, Reg. No. 19,717  
Lawrence E. Ashery, Reg. No. 34,515  
Attorneys for Applicants

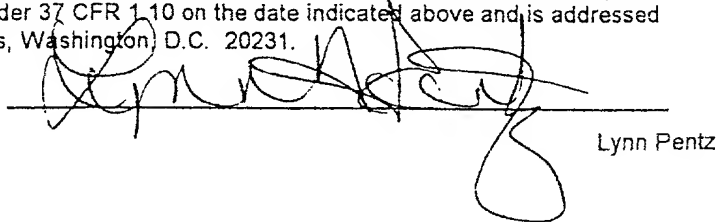
JMW/lis

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The Assistant Commissioner for Patents is  
hereby authorized to charge payment to  
Deposit Account No. 18-0350 of any fees  
associated with this communication.

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Date of Deposit: May 16, 1996

I Hereby certify that this paper and fee is being deposited with the United States Postal Service "Express Mail Post Office to Addressee" service under 37 CFR 1.10 on the date indicated above and is addressed to the Assistant Commissioner for Patents, Washington, D.C. 20231.

  
Lynn Pentz